

Title (en)

A DRUG DELIVERY DEVICE

Title (de)

WIRKSTOFFFREISETZUNGSVORRICHTUNG

Title (fr)

DISPOSITIF D'ADMINISTRATION DE MÉDICAMENT

Publication

**EP 2643020 A4 20141112 (EN)**

Application

**EP 11843763 A 20111128**

Priority

- ZA 201003748 A 20101126
- IB 2011055328 W 20111128

Abstract (en)

[origin: WO2012070027A1] The invention provides an inflammation-responsive implantable device for the in situ delivery of one or more pharmaceutically active agents to a human or animal. The device comprises two differential release bioresponsive polymeric matrices (BPMs): an outer polymeric matrix and an inner polymeric matrix, both of which contain at least one pharmaceutically active agent or drug, typically an antibiotic and an anti-inflammatory agent, respectively. The therapeutically effective agent may be embedded in nanoparticles or nanobubbles. In response to inflammation, the pharmaceutically active agents are released, but at different rates: the rate of drug release from the inner polymeric matrix is lower than the rate of drug release from the outer polymeric matrix. Suitable polymers for forming the outer and inner polymeric matrices are hyaluronic acid and chitosan, respectively. A method of making the device and a method of treatment are also described.

IPC 8 full level

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CPC (source: EP US)

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**A61K 45/06** (2013.01 - US); **A61K 47/32** (2013.01 - EP US); **A61K 47/36** (2013.01 - EP US); **A61P 29/00** (2017.12 - EP);  
**A61P 31/00** (2017.12 - EP)

Citation (search report)

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- [X] YAHYA E. CHOONARA ET AL: "A review of implantable intravitreal drug delivery technologies for the treatment of posterior segment eye diseases", JOURNAL OF PHARMACEUTICAL SCIENCES, vol. 99, no. 5, 1 May 2010 (2010-05-01), pages 2219 - 2239, XP055143337, ISSN: 0022-3549, DOI: 10.1002/jps.21987
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- See references of WO 2012070027A1

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DOCDB simple family (application)

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